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CHIMERIC CHAINS FOR RECEPTOR-ASSOCIATED  
SIGNAL TRANSDUCTION PATHWAYS



ABSTRACT OF THE DISCLOSURE

5 Chimeric proteins and DNA encoding chimeric  
proteins are provided, where the chimeric proteins are  
characterized by an extracellular domain capable of  
binding to a ligand in a non-MHC restricted manner, a  
transmembrane domain and a cytoplasmic domain capable  
10 of activating a signaling pathway. The extracellular  
domain and cytoplasmic domain are not naturally found  
together. Binding of ligand to the extracellular  
domain results in transduction of a signal and  
activation of a signaling pathway in the cell, whereby  
the cell may be induced to carry out various functions  
15 relating to the signalling pathway. A wide variety of  
extracellular domains may be employed as receptors,  
where such domains may be naturally occurring or  
synthetic. The chimeric DNA may be used to modify  
lymphocytes as well as hematopoietic stem cells as  
20 precursors to a number of important cell types.